Breathing Life into Sound Since 1953

The History Of Sherwood

Sherwood Electronic Labs was founded in Chicago in 1953 to manufacture an amplifier designed by legendary audio engineer Ed Miller. Determined to design high performance audio gear and to manufacture it themselves, Miller and his partner John Snow created a company that has long set the standard for audio excellence and efficient manufacturing.

Constantly Improving The Sound of Sound

Throughout the evolution of advanced audio electronics, Sherwood's contributions have been invaluable. The world's first commercial FM stereo broadcast employed Sherwood technology. Sherwood was the first to introduce digital readout tuners and computer-controlled tuners. And, most significantly, the industry's first 100% all-silicon solid-state audio receiver came from Sherwood.

The Future Sounds Even Better

In the fiercely competitive and rapidly evolving field of comsumer electronics, where companies shift production sites from one low-cost country to another, Sherwood is a leading light, an international symbol of unsurpassed quality, and one of the few companies to manufacture all the products bearing its name. Fittingly, the company continues to be guided by Ed Miller's enduring philosophy: Design audio gear that offers only the highest levels of performance and make it yourself.

Sherwood®

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SHERWOOD HOME AUDIO / VIDEO **2009-2010**

Sherwood®

Breathing Life into Sound Since 1953

Since its foundation in 1953 in Chicago, Illinois to build an amplifier designed by engineer Ed Miller, Sherwood has been a standard for innovation and performance excellence. Over the 50 and more years, of course, competitors have come and gone. Technology has been invented and reinvented. Yet, Sherwood Prevails.

The Sherwood brand, now an international icon for quality electronics in over fifty countries can truly be defined in two words: "World Class"

Our zeal for life-like audio is always undiminished. With its cutting-edge manufacturing system, backed by advanced AV technology, Sherwood provides only the best products. Propelled by a half century of acclaim, Sherwood's committed goal is simple; To breath Life into Sound.

Sherwood, The Green Sound

The name of Sherwood comes from the Sherwood Forest

where the legendary Robin Hood lives with his friends.

It is our mission to bring the Green Sound of Sherwood to your heart.

Sherwood

Stylish Digital Components

R-904 / BDP-904 has great style and presence.
It is a beautiful modern unit that is simple and easy to use.
It will fit stylish and effortlessly into your home.
Slim and restrained, its stunning high-definition visuals and unbelievable sounds will astonish you.

Slim Style Digital A/V Receiver R-904

Key Feature

- HD Audio Decoding for Blu-Ray
  - DTS-HD(Master Audio / High Resolution Audio)
  - Dolby TrueHD, Dolby Digital Plus
- Legacy Audio Decoding
  - DTS-ES(Discrete / Matrix)
  - DTS-96/24, DTS Neo:6 (Cinema/Music)
  - Dolby Digital, Dolby Digital-EX, Dolby Digital Prologic IIx
- Dual Advanced 32-bit processing DSP chip
- Dolby Volume
- Multi channel PCM Decoding
- 7 DSP Mode (Theater, Hall, Stadium, Room, Panorama, Classic, Multi CH Stereo)
- One Touch Automatic Speaker Setup
- Room Acoustic Calibration with EQ
- 192kHz / 24Bit D/A converter (All channels)
- 3 In /1 Out HDMI Repeater (Ver 1.3)
- 2 In / 1 Out Component Video
- 2 In / 2 Out Composite Video
- Digital Audio Input (1 Optical / 2 Coaxial)
- 7 Analog Audio Inputs
- 2 Zone multi room/ Multi source for audio
- iPod Connectivity with DS-10

Amplifier Feature

- Digital Amplifier
- 100W x 2@6Ω, 20Hz~20kHz, 0.5% THD in Stereo Mode
- 110W x 7 (1kHz, THD 1%)@6Ω / Only Channel
- Heavy Duty Speaker Binding Post

Tuner Feature

- FM Stereo Tuner
- Quartz Synthesized Digital Tuning
- 30 Station Presets
- RDS Function : PS, TA, RT, CT etc (Europe Version)

General Feature

- Color Coded Terminal
- Preprogrammed Remote Controller
- Color Availability : Black / White
- Dimension (WxHxD) : 430x72x280 mm
- Weight : 4.7kg

Full HD Blu-Ray Player with BD Profile 2.0 BDP-904

Key Feature

- Plays BD-ROM.BD-R,BD-RE, DVD-Video, DVD±R/RW, DVD-RAM, CD, Audio CD-R/RW, MP3CD, Digital Photo CD(JPEG)
- Video Resolution 480i/p, 720p,1080i/p
- Selectable 720p/1080i/1080p video upscaling for DVD
- BD-Live (BD Profile 2.0)
- Built-in audio decoding for Dolby TrueHD, Dolby Digital Plus, DTS-HD Mater Audio
- Multichannel audio PCM output via HDMI
- Bitstream audio output for Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio
- HDMI 1.3 with Deep color and x.v. color support
- HDMI, Component, S-Video and Composite Video Output
- Digital Audio Output (1 Optical / 1 Coaxial)
- Front USB Host
- Ethernet port for accessing online contents and features and possible feature upgrade

General Feature

- Remote Controller
- Color Availability : Black / White
- Dimension (WxHxD) : 430x72x280 mm
- Weight : 3.7kg

Sit back, Relax, Get Amazed

To move to a level beyond purely functional home theater,
the VR-654BD gives you everything you need for audibly powerful,
visually expressive home entertainment.
All you have to do is just to Sit back, Relax and Get Amazed.
You will wonder how you ever lived without it.

NEWCASTLE

Full HD Bluray Receiver VR-654BD

Key Feature

- Plays BD-ROM.BD-R,BD-RE, DVD-Video, DVD±R/RW, DVD-RAM, CD, Audio CD-R/RW, MP3CD, Digital Photo CD(JPEG)
- Video Resolution 480i/p, 720p,1080i/p
- Selectable 720p/1080i/1080p video upscaling for DVD
- BD-Live (BD Profile 2.0)
- HD Audio Decoding
  - DTS-HD(Master Audio / High Resolution Audio)
  - Dolby TrueHD, Dolby Digital Plus
- Legacy Audio Decoding
  - DTS-ES(Discrete / Matrix)
  - DTS-96/26, DTS Neo:6 (Cinema/Music)
  - Dolby Digital, Dolby Digital-EX, Dolby Digital Prologic IIx
- HDMI 1.3 with Deep color and x.v. color support
- HDMI, Component, S-Video and Composite Video Output
- Advanced 32-bit processing DSP chip
- Digital Audio Input (1 Optical / 1 Coaxial)
- 4 Analog Audio Inputs
- Preout: Surround Back L/R, Subwoofer
- Front USB Host
- Ethernet port for accessing online contents and features and possible feature upgrade
- iPod Connectivity with DS-10

Amplifier Feature

- Digital Amplifier
- 100W x 2@6Ω, 20Hz~20kHz, 0.5% THD in Stereo Mode
- 110W x 5 (1kHz, THD 1%)@6Ω / Only Channel

Tuner Feature

- FM Stereo Tuner
- Quartz Synthesized Digital Tuning
- 30 Station Presets
- RDS Function : PS, TA, RT, CT etc (Europe Version)

General Feature

- Color Coded Terminal
- Preprogrammed Remote Controller
- Color Availability : Black
- Dimension (WxHxD) : 435x105x387 mm
- Weight : 9.5kg

RD-8504 7.1 Channel A/V Surround Receiver with HD Video Upscaling

RD-7503 7.1 Channel A/V Surround Receiver with HD Audio Decoding

Key Feature

- HD Audio Decoding for Blu-Ray
  - DTS-HD(Master Audio / High Resolution Audio)
  - Dolby TrueHD, Dolby Digital Plus
- Legacy Audio Decoding
  - DTS-ES(Discrete / Matrix)
  - DTS-96/26, DTS Neo:6 (Cinema/Music)
  - Dolby Digital, Dolby Digital-EX, Dolby Digital Prologic IIx
- Multi channel PCM Decoding
- 7 DSP Mode (Theater, Hall, Stadium, Room, Panorama, Classic, Muti CH Stereo)
- One Touch Automatic Speaker Setup
- Room Acoustic Calibration with EQ
- 192kHz / 24Bit D/A converter (All channels)
- 3 In /1 Out HDMI Repeater (Ver 1.3)
- 7.1 channel Analog Input
- Video conversion (Composite, S-Video,Component Video To HDMI) (RD-8504 Only)
- Video Upscaling up to 1080p Full HD (via AnchorBay ABT2010) (RD-8504 Only)
- On Screen Display (Graphical Text) (RD-8504 Only)
- 2 Zone multi room/ Multi source for audio & Video
- iPod Connectivity with DS-10
- 2 In / 1 Out Component Video
- 3 In / 1 Out S-Video
- 4 In / 3 Out Composite Video
- 4 Digital Audio Input (2 Optical / 2 Coaxial) & Digital Output(Optical)
- 7 Analog Audio Inputs
- 12V DC Trigger Out

Amplifier Feature

- 100W x 2@6Ω, 40Hz~20kHz, 1.0% THD in Stereo Mode
- 110W x 7 (1kHz, THD 1%)@6Ω / Only Channel
- Heavy Duty Speaker Binding Post
- Assignable 2 Channel Power Amp (Surround Back L/R, Room2 or Bi-Amp)

Tuner Feature

- Quartz Synthesized Digital Tuning
- 30 Station Presets
- RDS Function : PS, TA, RT, CT etc (Europe Version)

General Feature

- Color Coded Terminal
- Headphone Jack
- Preprogrammed Remote Controller
- Color Availability : Black
- Dimension (WxHxD) : 435x166x374 mm
- Weight : 11.5kg

5.1 Channel A/V Surround Receiver with HDMI Repeater RD-6504

5.1 Channel A/V Surround Receiver with HDMI Switcher RD-6513

Key Feature

- Dolby Digital, Dolby Prologic II
- DTS Digital Surround , DTS 96/24
- 3 DSP Mode (Theater / Hall / Stadium)
- Advanced 32-bit processing DSP chip
- One Touch Automatic Speaker Setup (RD-6513 Only)
- Room Acoustic Calibration with EQ (RD-6513 Only)
- 2 In / 1 Out HDMI Switcher (RD-6513 Only)
- 2 In / 1 Out HDMI Repeater (RD-6504 Only)
- 2 In / 1 Out Component Video
- 2 In / 1 Out S-Video (RD-6513 Only)
- 2 In / 2 Out Composite Video
- Digital Audio Input (1 Optical / 2 Coaxial)
- 6 Channel Direct Input
- 7 Analog Audio Inputs
- Tone Control (Bass / Treble)
- Bluetooth ready for Sherwod Bluetooth dongle(BT-R7)

Amplifier Feature

- 100W x 2@6Ω, 40Hz~20kHz, 0.2% THD in Stereo Mode
- 110W x 5 (1kHz, THD 0.7%)@6Ω / Only Channel
- Heavy Duty Speaker Binding Post (Option)
- TDAS(Totally Discrete Amplifier Stage) for All Channels

Tuner Feature

- Quartz Synthesized Digital Tuning
- 30 Station Presets
- RDS Function : PS, TA, RT, CT etc (Europe Version)

General Feature

- Color Coded Terminal
- Headphone Jack
- Remote Controller
- Color Availability : Black
- Dimension (WxHxD) : 440x141x370
- Weight : 8.8kg

RD-6503 5.1 Channel A/V Surround Receiver with USB Host

Key Feature
- Dolby Digital, Dolby Prologic II
- DTS Digital Surround , DTS 96/24
- 3 DSP Mode (Theater / Hall / Stadium)
- Advanced 32-bit processing DSP chip
- 2 in / 2 out Composite Video
- Digital Audio Input (1 Optical / 2 Coaxial)
- 6 Channel Direct Input
- 9 Analog Audio Inputs
- Bluetooth ready for Sherwood Bluetooth dongle(BT-R7)
- USB Host for decoding MP3, WMA

Amplifier Feature
- 100W x 2@6Ω, 40Hz~20kHz, 0.2% THD in Stereo Mode
- 110W x 5 (1kHz, THD 0.7%)@6Ω / Only Channel
- TDAS(Totally Discrete Amplifier Stage) for All Channels

Tuner Feature
- Quartz Synthesized Digital Tuning
- 30 Station Presets
- RDS Function : PS, TA, RT, CT etc (Europe Version)

General Feature
- Color Coded Terminal
- Headphone Jack
- Remote Controller
- Color Availability : Black
- Dimension (WxHxD) : 440x141x370 mm
- Weight : 9.2kg

RD-5503 5.1 Channel Surround Receiver

Key Feature
- Dolby Digital, Dolby Prologic II
- DTS (Option)
- 3 DSP Mode (Theater / Hall / Stadium)
- Advanced 32-bit processing DSP chip
- Digital Audio Input (1 Optical / 1 Coaxial)
- 5 Analog Audio Inputs
- Tone Control (Bass / Treble)
- Subwoofer Preout

Amplifier Feature
- 50W x 2@6Ω, 40Hz~20kHz, 0.2% THD in Stereo Mode
- 75W x 5 (1kHz, THD 0.7%)@6Ω / Only Channel
- TDAS (Totally Discrete Amplifier Stage) for All Channels

Tuner Feature
- Quartz Synthesized Digital Tuning
- 30 Station Presets
- RDS Function : PS, TA, RT, CT etc (Europe Version)

General Feature
- Color Coded Terminal
- Remote Controller
- Color Availability : Black
- Dimension (WxHxD) : 440x141x358 mm
- Weight : 9.5kg

RX-4109 Stereo Receiver

Key Feature
- Stereo 100W High Power Output
- AM / FM Stereo Tuner
- Phono Input
- Speaker A / B Selector

Amplifier Feature
- Discrete Amplifier Stage (DAS)
- 100W x 2@8Ω, 20Hz~20kHz, 0.08% THD

Tuner Features
- Quartz PLL Synthesized Digital Tuning
- Auto Scan & Memory
- Preset Scan for Quick Search
- 30-Station Presets (Random)
- RDS-Function (Europe Version)

Audio /Video Feature
- 5 Audio Input & 2 Output (Including Tuner & Phono)
- Tone Direct
- Bass / Treble Control
- Balance Control

General Feature
- Headphone Output Jack
- Auto Function One-Touch Operation
- Digi-link III Remote Control for other Sherwood Components
- Digital Encoder Volume Control
- Fluorescent Display
- System illumination Control
- Sleep Timer
- Dimensions (W x H x D) : 440x138x332 mm
- Weight (Net) : 8.8kg

RX-5502 Multi Purpose 4 Channel Stereo Receiver

Key Feature
- Stereo 100W High Power Output
- AM / F M Stereo Tuner
- Phono Input
- Speaker A / B / C / D Selector
- Multi Source Room 2 Output (C/ D Speaker)

Amplifier Feature
- 100W x 2@8Ω, 20Hz ~ 20kHz, 0.08% THD
- 35W x 4@8Ω, 20Hz ~ 20kHz, 0.08% THD
- Discrete Amplifier Stage (DAS)

Audio / Video Feature
- 5 Audio Input & 2 Output (Including Tuner & Phono)
- Tone Direct
- Bass / Treble Control
- Balance Control

Tuner Feature
- Quartz PLL Synthesized Digital Tuning
- Auto Scan & Memory
- Preset Scan for Quick Search
- 30-Station Presets (Random)
- RDS Function (Europe Version)

General Feature
- Headphone Jack
- Digital Encoder Volume Control
- Fluorescent Display
- Sleep Timer
- Dimensions (W x H x D) : 440x138x332 mm
- Weight (Net) : 9.6kg

VR-652 2.1 Channel DVD Receiver

Hollywood at Home

A revolution In Virtual Home Theater Sound! Enjoy Wall-to-Wall Sound Without Wall-to-Wall Speakers VR-652. No matter what you want to hear or where you want to hear it, the Lifestyle VR-652 system adds thrilling sound to your movies and music with the combination of performance, elegance and simplicity you expect from Sherwood. Experience a bold standard in audio performance from a tabletop system as elegant as it is easy to use.

- Playable with CD, DVD, DVD-R/RW, DVD+R/RW,CD-R/RW, WMA, MP3, JPEG, Picture CD ▪ Progressive Scan (NTSC/PAL) ▪ 25W x 2Ch Plus 50W for Subwoofer into 4Ω
- 2 Speakers & Passive Subwoofer Speaker ▪ DTS, Dolby Digital ▪ Dolby Virtual Speaker & Dolby Headphone ▪ Front Mini Aux Jack for MP3 Player
- 2/1 Analog Input/Output ▪ 1 Subwoofer Pre-Out ▪ 1 Composite, 1 S-Video, 1 Component Output ▪ Front USB Host ▪ High Quality RDS Tuner ▪ Scart Out for Europe
- Multi OSD Language ▪ Dimensions (W x H x D) : 365x105x283 mm

NEWCASTLE

Stereo Receiver with Professional Performance RX-772

Key Feature

- 100W + 100W High Power Output
- AM/F M Stereo Tuner
- Direct Accessible Input Selector
- Unified Remote Control
- Speaker A/B Selector
- 7 Audio Inputs & 2 Outputs
- Phono Input
- Bass / Treble Control
- Balance Control
- Binding Post Speaker A/B Selection
- Pre-Out/Main In with Jumper Plug
- 2 Column FL Display

Amlpifier Feature

- WRAS (Wide Range Amplifier Stage) for All Channels
- 100Watts x 2@8Ω , 20Hz~20kHz, 0.08% THD

Tuner Feature

- Quartz PLL Synthesized Digital Tuning (4 Gangs)
- Auto Scan & Preset Memory (30 Stations)
- Preset Sacn for Quick Search
- RDS Function : PS, CT, RT, TA, CT, etc (Europe Version)

General Feature

- Straight Signal-Path Circuit Design
- Precision Signal Ground Circuit to Preserve Quality Purity
- High Grade Volume Control for Superior Sound Quality
- Aluminium Front Panel
- Headphone Jack
- DigiLink Remote Control for Sherwood CD-772
- One-Touch Auto Function Operation
- Sleep Timer
- Remote Control
- Color Availability : Titan
- Dimensions (W x H x D) : 440x159x380 mm
- Weight (Net) : 10.8kg

NEWCASTLE

Single CD Player with Professional Performance CD-772

Key Feature

- Playable with CD-DA, CD-R/RW, MP3
- 192kHz/24Bit High Qualiy D/A Converter
- 8 Times Ovesampling
- CD Up-Sampling to 192kHz/24Bit
- 1 Optical Digital Output
- 1 Analog Output
- Frequncy Response : 20Hz ~ 20kHz
- S/N : 105dB
- Dynamic Range : 95dB
- Display Dimmer Control
- Program Play, Direct Select, Program Call, Random Play, Repeat Play (1/All/A-B)
- 2 Column FL Display
- European Sound-Tuned
- Vibration Resistant Design
- Original Drive Mechanism
- High Accuracy Master Clock Oscillator to Suppress Jitter &Noise
- Aluminium Front Panel
- DigiLink Remote Control for Sherwood RX-772
- One -Touch Auto Function Operation
- Remote Control
- Color Availability : Titan
- Dimensions (W x H x D) : 440x129x355 mm
- Weight (Net) : 7.4kg

AX-5103 High Performance Integrated Stereo Amplifier

Key Feature

- 100Watts x 2@8Ω, 20Hz~20kHz, 0.3% THD
- Discrete Amplifier Stage (DAS)
- 5 Audio Input (Phono, Tuner, CD, Tape1 / MD, Tape2 Mon)
- Tone Control ▪ Balance Control
- Tone Defeat & Loudness
- Speaker A / B Selector with LED Indicator
- Headphone Output Jack ▪ Motorized Volume Control
- Unified Remote Controller
- Digi-Link III Remote Control for Other Sherwood Components
- Dimensions (W x H x D) : 440x145x360 mm
- Weight : 9.0kg

DD-6200 Auto Reverse Dual Cassette Deck

Key Feature

- Full Logic Tape Transport Mechanism
- Auto Reverse (R / P Only)
- Dolby B Noise Reduction Systems
- Normal and High Speed Dubbing
- Relay Play
- Reverse Mode and Tape Size Selector
- Automatic Tape Selector (Normal, Chrome Tape)
- Real Time Tape Counter
- Memory Stop Function
- Peak-Reading FL Record Level Meter (7x2 Segments) for Precise Manual Record Level Adjustment
- CD synchronous Recording (Digi-Link III Connection)
- AMS Automatic Music Search (20 Program)
- Blank Skip Function
- Headphone Jack
- Automatic MPX Filter
- Wow and Flutter (WRMS) : 0.08%
- Frequency Response : 20-18,000Hz
- S/N Ratio (Dolby B) : 63dB
- Convenient Digi-Link III System Remote Control
- Dimensions (W x H x D) : 440x125x250 mm
- Weight (Net) : 4.0kg

CD-5090 Single CD Player

Key Feature

- Single CD Player
- 1-Bit D/A Converter
- 8 Times Oversampling
- 3-Beam Laser Pick-up
- DTS Digital Output
- Optical Digital Output
- Programmable Memory (20)
- Music Calendar (14)
- Random Play (1 / All)
- Direct Track Access
- Intro Scan and Delete Play (Via Remote)
- CD Synchro Record
- Tape Edit / Length Adjustment
- Elapsed / Remaining Time Button
- Headphone Output Jack
- Multi-Function Fluorescent Display
- Display Off / Dimmer
- Remote Control
- Digi-Link III
- Gold-Plated RCA Jacks
- Dimensions (W x H x D) : 440x95x250 mm
- Weight : 3.5kg

CDC-5090 Front Loading Carrousel Multi-Disc Player

Key Feature

- Dual 1-Bit (Twin) D/A Converters
- 5-Disc Carrousel Type
- 8 Times Oversampling
- 3-Beam Laser Pick-up
- DTS Digital Out / Optical Digital Output
- Programmable Memory (32)
- Music Calendar (14)
- Play 1 Exchange 4
- Random Play (1 / Program / All)
- Repeat Mode (1 / Disc / All)
- A-B Repeat (Via Remote)
- Intro Scan (Via Remote)
- Delete Play (Via Remote)
- Disc Loading Status
- CD Synchro Record
- Tape Edit
- Length Adjustment
- Elapsed / Remaining Time Button
- Headphone Output Jack
- Multi-Function Fluorescent Display
- Display Off / Dimmer
- Remote Control / Digi-Link III
- Dimensions (W x H x D): 440x112x388 mm
- Weight : 5.7kg

TX-5090 FM/MW/LW Tuner with RDS

Key Feature

- Digital Quartz PLL Synthesizer
- FM, MW and LW Band
- Dual Gate MOS FET Front End
- Automatic and Manual Tuning
- 30 Presets, Random Access, Recall by Numeric (10-Key) Buttons
- Preset Scan Function
- RDS Functions : PS, PTY, RT, TP, TA and CT
- Alpha-Numeric Fluorescent Display
- Convenient Digi-Link III System Remote Control
- Dimensions (W x H x D) : 440x80x250 mm
- Weight : 2.8kg

DS-10 iPod Docking Station

Key Feature

- Compatible iPod Models : iPod Touch, iPod Classic, iPod 5th Generation(Video), iPod 4th Generation, iPod Nano 3rd Generation, iPod Nano 2nd Generation, iPod Nano 1st Generation, iPod Mini
- Composite and Component Video output
- Analog Audio Output
- OSD for iPod Information
- Recharging iPod
- Single Remote controller
- Weight : 305g
- Dimension(W x H x D): 120x31x123 mm

* DS-10 does not include iPod Product.

PM-9805 Manual Phonograph for Analogphile with Pitch Control

Key Feature

- Professional Quick-Start Hi-Fi Turntable
- Designed for Analog Records with 33 and 45 RPM
- Studio-Type Turntable with Massive Die-Cast Platter
- Pitch Control ±10%
- Illuminated Strobe
- Manual Tone Arm Function, Hydraulic Lowering Devic
- Straight & Static Balanced Type Tone Arm
- Anti-Skating with Counter Weight
- Low-Mass S-Shaped Tone Arm with Standard Detachable Head Shell
- Adjustable Skating Force Compensation
- Stylus Pilot Light
- Detachable Acrylic Dust Cover
- Dimensions (W x H x D) : 450x145x350 mm
- Weight : 4.4kg

BT-R7 Bluetooth Dongle

Key Feature

- Maximum Communication Range : Approximately 10m (33ft)
- Frequency Band : 2.4000GHz ~ 2.4835GHz
- Terminals : 24pin
- Frequency Response, 100Hz ~ 15kHz : ±3dB
- Signal to Noise Ratio : 85dB
- RF Level : -30dBm

Specifications

A/V Receiver	RD-8504	RD-7503	RD-6504	RD-6513	RD-6503	RD-5503	R-904	VR-652	VR-654BD	RX-772	RX-4109	RX-5502
Amplifier												
Power Output Stereo Mode	100W x 2 (40Hz~20kHz,THD 0.2%)@6Ω	100W x 2 (40Hz~20kHz,THD 0.2%)@6Ω	100W x 2 (40Hz~20kHz,THD 0.2%)@6Ω	100W x 2 (40Hz~20kHz,THD 0.2%)@6Ω	100W x 2 (40Hz~20kHz,THD 0.2%)@6Ω	500W x 2 (40Hz~20kHz,THD 0.2%)@6Ω	100W x 2 (20Hz~20kHz,THD 0.5%)@6Ω	25W x 2 (20Hz~20kHz,THD 0.7%)@6Ω	100W x 2 (20Hz~20kHz,THD 0.5%)@6Ω	100W x 2 (20Hz~20kHz,THD 0.08%)@6Ω	100W x 2 (20Hz~20kHz,THD 0.3%)@6Ω	100W x 2 (20Hz~20kHz,THD 0.2%)@6Ω
Stereo Surround Mode	110W x 7 (1kHz,THD 1.0%)@6Ω / Only Channel Driven	110W x 7 (1kHz,THD 1.0%)@6Ω / Only Channel Driven	110W x 5 (1kHz,THD 0.7%)@6Ω / Only Channel Driven	110W x 5 (1kHz,THD 0.2%)@6Ω / Only Channel Driven	110W x 5 (1kHz,THD 0.7%)@6Ω / Only Channel Driven	75W x 5 (1kHz,THD 0.7%)@6Ω / Only Channel Driven	110W x 7 (1kHz,THD 1%)@6Ω / Only Channel Driven	- - -	110W x 5 (1kHz,THD 1%)@6Ω / Only Channel Driven	-	-	-
THD	0.04%	0.05%	0.06%	0.04%	0.05%	0.03%	0.20%	0.05%	0.20%	0.03%	0.03%	0.09%
Input Sensitivity/Impedance												
Line (CD, Tape, Video @ 47kΩ)	200mV / 47kΩ	300mV / 47kΩ	200mV	280mV	200mV	280mV	200mV	200mV	220mV	200mV	200mV	200mV
S/N Ratio - Line (CD, Tape, Video)	100dB	100dB	95dB	95dB	95dB	95dB	90dB	90dB	90dB	95dB	95dB	92dB
Tone Controls												
Bass (100Hz)	±10dB	±10dB	±12dB	±10dB	±12dB	±10dB	±10dB	-	±10dB	±10dB	±10dB	±10dB
Treble (10kHz)	±10dB	±10dB	±12dB	±10dB	±12dB	±10dB	±10dB	-	±10dB	±10dB	±10dB	±10dB
Cinema EQ	±4dB	±4dB	-	-	-	-	±4dB	-	-			
Frequency Response												
Line (CD, Tape, Video)	10Hz~100kHz	10Hz~100kHz	10Hz~85kHz	10Hz~75kHz	10Hz~83kHz	10Hz~94kHz	20Hz~70kHz	20~20kHz, -1dB	20Hz~60kHz, ±3dB	20~100kHz, ±3dB	20Hz~100kHz, ±3dB	20~50kHz, -3dB
FM Tuner												
Frequency Range	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz	87.5~108.0MHz
RDS Function (Option)												
RDS, PTY, TP Search	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes(Only RDS, PTY)	Yes	Yes	Yes	Yes
PS, RT, CT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes(Only RDS, PTY)	Yes	Yes	Yes	Yes
Usable Sensitivity (Mono)	12.8dBf	12.8dBf	12.8dBf	12.8dBf	12.8dBf	12.8dBf	9dBf	17.2dBf	13dBf	17.2dBf	17.2dBf	12.8dBf
46dB Quieting Sensitivity												
Mono	20.2dBf	20.2dBf	20.2dBf	20.2dBf	20.2dBf	20.2dBf	20.2dBf	20.2dBf	20.2dBf	20.8dBf	20.8dBf	20.2dBf
Stereo	45.3dBf	45.3dBf	45.3dBf	45.3dBf	45.3dBf	45.3dBf	45.3dBf	45.3dBf	45.3dBf	41.2dBf	41.2dBf	45.3dBf
S/N Ratio (65dBf)												
Mono	72dB	71dB	69dB	68dB	66dB	64dB	70dB	70dB	69dB	68dB	68dB	70dB
Stereo	55dB	68dB	68dB	66dB	62dB	64dB	65dB	65dB	67dB	67dB	67dB	65dB
THD (65dBf, 1kHz)												
Mono	0.40%	0.40%	0.40%	0.40%	0.20%	0.50%	0.80%	0.50%	0.50%	0.40%	0.40%	0.20%
Stereo	0.40%	0.40%	0.40%	0.50%	0.20%	0.50%	1.00%	0.80%	0.60%	0.50%	0.50%	0.40%
Frequency Response	±3.0dB(30Hz~14kHz)	±3.0dB(30Hz~14kHz)	±3.0dB(30Hz~12kHz)	±3.0dB(30Hz~12kHz)	±3.0dB(30Hz~15kHz)	±3.0dB(30Hz~14kHz)	±3.0dB(30Hz~15kHz)	±3.0dB	±3.0dB(30Hz~15kHz)	±3.0dB(26Hz~13kHz)	±3.0dB(26Hz~13kHz)	±3.0dB
Stereo separation (1kHz)	35dB	45dB	36dB	43dB	35dB	36dB	45dB	35dB	45dB	38dB	38dB	42dB
AM Suppression Ratio (45dBf)	62dB	62dB	66dB	63dB	62dB	57dB	60dB	60dB	66dB	62dB	62dB	60dB
Image Rejection Ratio	94dB	81dB	119dB	28dB	100dB	26dB	70dB	70dB	119dB	29dB	29dB	85dB
IF Rejection Ratio	76dB	76dB	120dB	105dB	88dB	106dB	70dB	120dB	120dB	108dB	108dB	80dB
AM Tuner												
Frequency Range												
Europe	520~1710kHz	520~1710kHz	520~1710kHz	520~1710kHz	520~1710kHz	520~1710kHz	-	520~1710kHz	-	520~1710kHz	520~1710kHz	520~1710kHz
Other	522~1611kHz	522~1611kHz	522~1611kHz	522~1611kHz	522~1611kHz	522~1611kHz	-	522~1611kHz	-	522~1611kHz	522~1611kHz	522~1611kHz
Usable Sensitivity (400μV /m)	500μV	500μV	500μV	500μV	500μV	500μV	-	500μV	-	500μV	500μV	500μV
THD (400Hz, 30% Modulation)	0.10%	2.20%	1.40%	1.30%	1.20%	1.50%	-	1.00%	-	1.50%	1.50%	0.01%
S/N Ratio	49dB	35dB	49dB	50dB	48dB	48dB	-	45dB	-	52dB	52dB	40dB
Frequency Response	54Hz~1.2kHz	52Hz~2.5kHz	47Hz~2.6kHz	47Hz~2.6kHz	54Hz~2.9kHz	62Hz~2.8kHz	-	±6.0dB	-	50Hz~2.6kHz	50Hz~2.6kHz	80Hz~2.3kHz
Image Rejection Ratio	36dB	36dB	57dB	35dB	33dB	30dB	-	35dB	-	35dB	35dB	33dB
Selectivity	29dB	29dB	28dB	28dB	31dB	34dB	-	30dB	-	24dB	24dB	25dB
Video												
Input Sensitivity(75Ω)	1Vp-p	1Vp-p	1Vp-p	1Vp-p	1Vp-p	-	1Vp-p	-	1Vp-p	-	-	-
Output Level (75Ω, VCR/Monitor Out)												
Composite (normal)	1Vp-p	1Vp-p	1Vp-p	1Vp-p	1Vp-p	-	1Vp-p	1Vp-p	1Vp-p	-	-	-
S-Video (Y/C)	1Vp-p/0.286 Vp-p	1Vp-p/0.286Vp-p	-	1Vp-p/0.286Vp-p	-	-	-	1 Vp-p/0.286 Vp-p	-	-	-	-
Component Video (Cr Signal)	0.5Vp-p	0.5Vp-p	0.5Vp-p	0.5Vp-p	-	-	0.5Vp-p	0.7Vp-p	0.5Vp-p	-	-	-
(Cb Signal)	0.5Vp-p	0.5Vp-p	0.5Vp-p	0.5Vp-p	-	-	0.5Vp-p	0.7Vp-p	0.5Vp-p	-	-	-
(Y Signal)	1.0Vp-p	1.0Vp-p	1.0Vp-p	1.0Vp-p	-	-	1.0Vp-p	1.0Vp-p	1.0Vp-p	-	-	-
Frequency Response (±2dB)						-						
Composite Video/S-Video	10Hz~10MHz	10Hz~10MHz	10Hz~10MHz	10Hz~10MHz	10Hz~10MHz	-	10Hz~10MHz	5Hz~6MHz	5Hz~4MHz	-	-	-
Component Video	DC-100MHz	DC-100MHz	DC-100MHz	DC-100MHz	-	-	DC-100MHz					
Crosstalk (1MHz)	50dB	50dB	50dB	50dB	50dB	-	50dB	50dB	50dB	-	-	-
General												
Dimensions (W x H x D)	435 x 166 x 374mm	435 x 166 x 374mm	440 x 141 x 370mm	440 x 141 x 370mm	440 x 141 x 370mm	440 x 141 x 358mm	430 x 72 x 280mm	365 x 105 x 283mm	435 x 105 x 387mm	440 x 159 x 380mm	440 x 138 x 332mm	440 x 138 x 332mm
Weight	11.5kg	11.5kg	8.8kg	9.2kg	9.5kg	9.5kg	4.7kg	7.5kg	8.3kg	10.8kg	8.8kg	8.8kg

Amplifier

AX-5103

	AX-5103		
Power output (8Ω , 40Hz~20kHz)	100W x 2 (0.3% THD)		
THD (8Ω , 1Hz)	0.03%		
Frequency Response	10Hz~60kHz, -2dB		
IMD (60Hz : 7kHz = 4 : 1, 8Ω)	0.03%		
Input Sensitivity, 47kΩ			
Phono	3.0mV		
CD, Tuner, Tape	200mV		
S/N Ratio			
Phono	75dB		
CD, Tuner, Tape	95dB		
Bass / Treble Control, 100Hz / 10kHz	±10dB		
Loudness 100Hz / 10kHz	+6dB / +3dB		
Dimensions (W x H x D)	440 x 145 x 360mm		
Weight	9.0kg		

Compact Disc Player

CD-772

CDC-5090

CD-5090

	CD-772	CDC-5090	CD-5090
Frequency Response	20Hz~20kHz ±0.5dB	20Hz~20kHz ±0.5dB	20Hz~20kHz ±0.5dB
S/N Ratio	110dB	110dB	110dB
Dynamic Range	95dB	95dB	95dB
THD, 1kHz	0.005%	0.005%	0.005%
Wow and Flutter	Quartz Crystal Precision	Quartz Crystal Precision	Quartz Crystal Precision
Audio Output Level	2 V RMS	2 V RMS	2 V RMS
Dimensions (W x H x D)	440 x 129 x 355mm	440 x112 x 388mm	440 x 95 x 250mm
Weight	7.4kg	5.7kg	3.5kg

Cassette Deck

DD-6200

	DD-6200		
Wow & Flutter	8.75kg		
Normal	20Hz~16.5kHz		
CrO2	20Hz~17.5kHz		
Metal	20Hz~18.5kHz		
S/N Ratio (B/C NR On)	65 / 72dB		
Channel Separation	40dB		
Dimensions (W x H x D)	440 x 125 x 250mm		
Weight	4.0kg		

Turn Table

PM-9805

	PM-9805		
Gain	0dB		
S/N Noise	100dB		
THD	0.03%		
EQ Controls (60Hz, 150Hz, 400Hz, 1kHz,2.4Hz, 6kHz,15Hz)	±10dB		
Dimensions (W x H x D)	450 x 145 x 350mm		
Weight	4.4kg		

Tuner

TX-5090

FM Tuner	TX-5090	AM (MW) Tuner	
Frequency Range	87.5~108.0MHz	Frequency Range	522~161kHz
Usable Sensitivity	15.2dBf	Usable Sensitivity	500μV /m
S/N Ratio (65dBf)		S/N Ratio	45dB
Mono / Stereo	70dB / 65dB	Selectivity	25dB
THD, 65dBF, 1kHz		**FM (LW) Tuner**	
Mono / Stereo	0.4% / 0.6%	Frequency Range	153~279kHz
Frequency Response	±3dB	Usable Sensitivity	800μV /m
		S/N Ratio(65dBf)	40dB
		Dimensions (W x H x D)	440 x 80 x 250mm
		Weight	2.8kg

MODEL	R-904	RD-8504	RD-7503	RD-6504	RD-6513	RD-6503	RD-5503
Features							
Decoding format							
Dolby TrueHD	●	●	●	-	-	-	-
Dolby Digital Plus	●	●	●	-	-	-	-
Dolby Digital Surround EX	●	●	●	-	-	-	-
Dolby Digital	●	●	●	●	●	●	●
Dolby Pro Logic IIx	●	●	●	-	-	-	-
Dolby Pro Logic II	●	●	●	●	●	●	●
Dolby Volume	●	-	-	-	-	-	-
DTS-HD	●	●	●	-	-	-	-
DTS ES	●	●	●	-	-	-	-
DTS 96 / 24	●	●	●	●	●	●	-
DTS Digital Surround	●	●	●	●	●	●	-
DTS Neo : 6	●	●	●	-	-	-	-
Processor & Converter							
32-bit floating point DSP	x2	x1	x1	x1	x1	x1	x1
192 kHz / 24bit D/A Converter for all Ch	●	●	●	●	●	●	●
Amplifier							
Amplifier Channels	7	7	7	5	5	5	5
6 ohm rated power output	110W	110W	110W	110W	110W	110W	75W
Full discrete all Ch equal power amplifier	●	●	●	●	●	●	●
Surround Back Ch amplifier assign	●	●	●	●	●	●	●
Video input terminals							
HDMI	3	3	3	2	2	-	-
Component Video	2	2	2	2	2	-	-
S-Video	-	3	3	-	2	-	-
Composite video	2	4	4	2	2	2	-
Video output terminals							
HDMI	1	1	1	1	1	-	-
Component Video	1	1	1	1	1	-	-
S-Video	-	1	1	-	1	-	-
Composite Video	1	3	3	2	2	2	-
Audio input terminals							
EXT.IN	-	8Ch x1	8Ch x1	6Ch x1	6Ch x1	6Ch x1	-
Digital (Coaxial)	2	2	2	2	2	2	1
Digital (Optical) (incl. Front panel)	1	2	2	1	1	1	1
Analog	7	8	8	8	7	9	5
Audio output terminals							
Digital (Optical) (incl. Front panel)	-	1	1	-	-	-	-
Pre out	Sub woofer	Sub woofer	Sub woofer	Sub woofer	Sub woofer	Sub woofer	Sub woofer
Set up & Operation							
Auto set up with microphone	●	●	●	-	●	-	-
Room EQ	●	●	●	-	●	-	-
On screen display	-	● (Graphics)	●	-	-	-	-
Remote controller	●	●	●	●	●	●	●
Others							
RS232C	-	-	-	-	-	-	-
Variable subwoofer cross over switching	●	●	●	●	●	●	-
Video conversion	-	Composite, S-video Component → HDMI	-	-	-	-	-
Video Scaling	-	Up to 1080p	-	-	-	-	-
Cinema EQ	●	●	●	-	-	-	-
Night mode	●	●	●	●	●	●	●
All Ch binding post SP terminal	●	●	●	-	-	-	-
Room 2	●	●	●	-	-	-	-
Front SP BI Amp	-	●	●	-	-	-	-
Tuner	●	●	●	●	●	●	●
RDS(radio data system)	●	●	●	●	●	●	●
Auto surround mode	●	●	●	●	●	●	●
Multi Channel stereo mode	●	●	●	●	-	●	-
USB Host(Decoding for MP3, WMA)	-	-	-	-	-	●	-
Digi-Link I	●	●	●	-	-	-	-
Bluetooth Receiver	-	-	-	●	●	●	-